

Name: _____

p1105: Factoring when $a = \text{prime}$ (v31)

1. Factor the expression $3x^2 + 19x - 72$

$$(3x - 8)(x + 9)$$

2. Factor the expression $3x^2 - x - 2$

$$(3x + 2)(x - 1)$$

3. Factor the expression $5x^2 - 26x - 24$

$$(5x + 4)(x - 6)$$

4. Factor the expression $7x^2 + 9x - 10$

$$(7x - 5)(x + 2)$$

5. Factor the expression $2x^2 + 9x - 35$

$$(2x - 5)(x + 7)$$

6. Factor the expression $7x^2 + 34x - 5$

$$(7x - 1)(x + 5)$$

7. Factor the expression $7x^2 - 19x + 10$

$$(7x - 5)(x - 2)$$

8. Factor the expression $5x^2 + 34x + 24$

$$(5x + 4)(x + 6)$$

9. Factor the expression $5x^2 - 18x + 16$

$$(5x - 8)(x - 2)$$

10. Factor the expression $5x^2 + 42x + 49$

$$(5x + 7)(x + 7)$$